

PTO-1449

Application No.

Applicant(s)

09/870,772

Catherwood

Docket Number

Group Art Unit

Filing Date

068354.1482

2115

June 1, 2001

**Information Disclosure Citation
in an Application**

U.S. PATENT DOCUMENTS

		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
DMB	A.	3771146	11/6/73	Cotton et al.	710	260	1/22/73
	B.	3781810	12/25/73	Downing	340	172.5	4/26/72
	C.	3886524	5/27/75	Appelt	710	110	10/18/73
	D.	4025771	5/24/77	Lynch et al.	708	521	3/25/74
	E.	4074353	2/14/78	Woods et al.	710	264	3/24/76
	F.	4090250	5/16/78	Carlson et al.	712	234	9/30/76
	G.	4323981	4/6/82	Nakamura	364	749	10/23/78
	H.	4379338	4/5/83	Nishitani et al.	708	552	11/21/80
	I.	4398244	8/9/83	Chu et al.	364	200	5/7/80
	J.	4408274	10/4/83	Wheatley et al.	364	200	9/29/80
	K.	4451885	5/29/84	Gerson et al.	708	200	3/1/82
	L.	4472788	9/18/84	Yamazaki	364	900	8/27/81
	M.	4481576	11/6/84	Bicknell	364	200	3/19/82
	N.	4488252	12/11/84	Vassar	364	748	2/22/82
DMB	O.	4511990	4/16/85	Hagiwara et al.	364	748	10/15/81

FOREIGN PATENT DOCUMENTS

		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
DMB	P.	01037424 A	2/1989	JP (w/abstract)	H03M	001/82		X
DMB	Q.	0 554 917 A2	8/11/93	EP	G06F	9/26	X	
DMB	R.	96/11443	4/18/96	WO	G06F	15/78	X	
DMB	S.	0 855 643 A1	07/29/98	EP	G06F	9/30	X	
DMB	T.	0 992 888	12/04/00	EP	G06F	9/32	X	
DMB	U.	0 992 889	12/14/00	EP	G06F	9/32	X	

NON-PATENT DOCUMENTS - DOCUMENT (Including Author, Title, Source, and Pertinent Pages)

DMB	V.	Moon B I et al.: "A 32-bit RISC Microprocessor with DSP Functionality: Rapid Prototyping" IEICE Transactions on Fundamentals of Electronics, Communications and Computer Sciences, Institute of Electronics Information and Comm. Eng. Tokyo, JP, vol. E84-A no. 5, pages 1339-1347, XP001060025 ISSN: 0916-8508					5/2001
DMB	W.	Turley J: "Balancing Conflicting Requirements When Mixing RISC, DSPs" Computer Design, Pennwell Publ. Littleton, Massachusetts, IS, vol. 37, no. 10, pages 46, 48, 50-53, XP000860706 ISSN: 0010-4566					10/1998
DMB	X.	Levy M: "Microprocessor and DSP Technologies Unite for Embedded Applications" EDN Electrical Design News, Cahners Publishing Co., Newtown Massachusetts, US, no. Europe, pages 73-74, 76, 78-80, XP000779113 ISSN: 0012-7515					3/2/1998

EXAMINER

Dennis M. Butler

DATE CONSIDERED

5-10-05

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	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
DMB	A.	4556938	Parker et al.	364	200	2/22/82
	B.	4626988	George	364	200	3/7/83
	C.	4730248	Watanabe et al.	364	200	8/30/84
	D.	4742479	Kloker et al.	364	746	3/25/85
	E.	4768149	Konopik et al.	364	200	8/29/85
	F.	4779191	Greenblatt	711	2	4/12/85
	G.	4782457	Cline	364	715.04	8/18/86
	H.	4800524	Roesgen	364	900	12/2/87
	I.	4807172	Nukiyama	364	715.08	2/17/87
	J.	4829420	Stahle	364	200	6/29/87
	K.	4829460	Ito	364	715.08	10/14/87
	L.	4839846	Hirose et al.	364	748	3/12/86
	M.	4841468	Miller et al.	708	625	3/20/87
	N.	4872128	Shimizu	364	715.08	2/17/88
	O.	4882701	Ishii	364	900	9/23/88
	P.	4926371	Vassiliadis et al.	708	628	12/28/88
DMB	Q.	4941120	Brown et al.	364	748	4/17/89

FOREIGN PATENT DOCUMENTS							
	DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	R.						
	S.						

NON-PATENT DOCUMENTS - DOCUMENT (Including Author, Title, Source, and Pertinent Pages)			
DMB	T.	Intel, Pentium Processor Family Developer's Manual, Volume 3: Architecture and Programming Manual, , Pages 3-1, 3-2, 3-15, 14-1 to 14-30, 18-7, and 25-289 to 25-292	1995
DMB	U.	Intel, Embedded Intel486 Processor Family Developer's Manual, pgs. 2-2, 3-17, 3-37, 4-5, 4-6, 10-1 to 10-12, 12-1 to 12-10	10/1997
DMB	V.	Moore, M "Z80 Family Interrupt Structure". Barleywood (online), retrieved from the internet <URL: http://www.gaby.de/z80/1653.htm>	1997
DMB	W.	PCT Search Report based on PCT/US02/16706, 6 pages	Mailed 9/27/02
DMB	X.	PCT Search Report based on PCT/US02/16705, 7 pages	Mailed 9/9/02
DMB	Y.	PCT Search Report based on PCT/US02/16921, 4 pages	Mailed 10/18/02

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<i>Dennis M. Butler</i>	5-10-05

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		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
DMB	A.	4943940	7/24/90	New	364	748	9/27/84
	B.	4959776	9/25/90	Deerfield et al.	364	200	12/5/88
	C.	4977533	12/11/90	Miyabayashi et al.	364	726	10/10/89
	D.	4984213	1/8/91	Abdoo et al.	365	230.03	2/21/89
	E.	5007020	4/9/91	Inskeep	364	900	5/7/90
	F.	5012441	4/30/91	Retter	364	900	11/24/86
	G.	5032986	7/16/91	Pathak et al.	364	200	9/22/89
	H.	5034887	7/23/91	Yasui et al.	364	200	7/27/90
	I.	5038310	8/6/91	Akagiri et al.	364	715.04	4/19/90
	J.	5040178	8/13/91	Lindsay et al.	371	21.5	5/12/89
	K.	5056004	10/8/91	Ohde et al.	264	200	10/14/88
	L.	5099445	3/24/92	Studor et al.	364	715.08	12/26/89
	M.	5101484	3/31/92	Kohn	395	375	2/14/89
	N.	5117498	5/26/92	Miller et al.	395	775	9/19/90
	O.	5121431	6/9/92	Wiener	713	174	7/2/90
	P.	5122981	6/16/92	Taniguchi	364	748	3/23/89
	Q.	5155823	10/13/92	Tsue	395	400	4/17/89
	R.	5177373	1/5/93	Nakamura	307	265	9/27/91
	S.	5197023	3/23/93	Nakayama	364	748	10/31/91
	T.	5197140	3/23/93	Balmer	395	400	11/17/89
	U.	5206940	4/27/93	Murakami et al.	395	400	8/27/91
	V.	5212662	5/18/93	Cocanougher et al.	364	748	9/11/90
✓	W.	5239654	8/24/93	Ing-Simmons et al.	395	800	11/17/89
DMB	X.	5276634	1/4/94	Suzuki et al.	364	748	8/20/91

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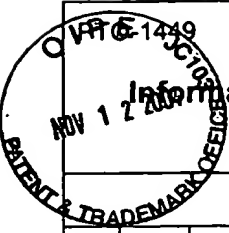
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		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
DMB	A.	5282153	1/25/94	Bartkowiak et al.	364	716	4/6/93
	B.	5327543	7/5/94	Miura et al.	395	375	4/23/90
	C.	5327566	7/5/94	Forsyth	395	775	7/12/91
	D.	5375080	12/20/94	Davies	364	736.5	12/18/92
	E.	5379240	1/3/95	Byrne	364	715.08	3/8/93
	F.	5392435	2/21/95	Masui et al.	395	725	9/29/93
	G.	5418976	5/23/95	Iida	395	800	12/21/92
	H.	5422805	6/6/95	McIntyre et al.	708	625	10/21/92
	I.	5432943	7/11/95	Mitsubishi	395	725	4/19/93
	J.	5448703	9/5/95	Amini et al.	395	290	5/28/93
	K.	5448706	9/5/95	Fleming et al.	395	421.07	5/13/92
	L.	5463749	10/31/95	Wertheizer et al.	395	437	1/13/93
	M.	5469377	11/21/95	Amano	364	748	8/18/93
	N.	5471600	11/28/95	Nakamoto	395	405	2/22/95
	O.	5497340	3/5/96	Uramoto et al.	364	745	6/14/93
	P.	5499380	3/12/96	Iwata et al.	395	800	5/18/04
	Q.	5504916	4/2/96	Murakami et al.	395	800	9/28/93
	R.	5517436	5/14/96	Andreas et al.	364	736	6/7/94
	S.	5525874	6/11/96	Mallarapu et al.	318	254	1/30/95
	T.	5548544	8/20/96	Matheny et al.	364	745	10/14/94
	U.	5561619	10/1/96	Watanabe et al.	364	736.5	9/20/94
	V.	5564028	10/8/96	Swoboda et al.	395	375	1/11/94
DMB	W.	5568380	10/22/96	Broadnax et al.	364	184	8/30/93

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U.S. PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
DMB	A.	5568412	10/22/96	Han et al.	364	748	11/29/94
	B.	5596760	1/21/97	Ueda	395	588	12/9/92
	C.	5600813	2/4/97	Nakagawa et al.	395	421.07	2/9/93
	D.	5611061	3/11/97	Yasuda	395	591	11/24/93
	E.	5619711	4/8/97	Anderson	395	800	6/29/94
	F.	5638524	6/10/97	Kiuchi et al.	395	375	5/17/95
	G.	5642516	6/24/97	Hedayat et al.	395	733	10/14/94
	H.	5649146	7/15/97	Riou	395	421.07	3/30/95
	I.	5651121	7/22/97	Davies	395	376	12/18/92
	J.	5657484	8/12/97	Scarrá	395	561	12/27/94
	K.	5659700	8/19/97	Chen et al.	395	421.07	2/14/95
	L.	5682339	10/28/97	Tam	364	715.08	5/26/95
	M.	5689693	11/18/97	White	395	565	4/26/94
	N.	5694350	12/2/97	Wolrich et al.	364	788	6/30/95
	O.	5696711	12/9/97	Makineni	364	748.03	12/22/95
	P.	5706460	1/6/98	Craig et al.	395	380	3/19/91
	Q.	5706466	1/6/98	Dockser	395	452	1/13/95
	R.	5715470	2/3/98	Asano et al.	395	800	9/27/93
	S.	5737570	4/7/98	Koch	395	872	4/28/97
	T.	5740095	4/14/98	Parant	364	760	7/12/95
	U.	5740419	4/14/98	Potter	395	588	7/22/96
	V.	5740451	4/14/98	Muraki et al.	395	733	10/28/96
DMB	W.	5748516	5/5/98	Goddard et al.	364	748.03	9/26/95
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	X.						
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		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
DmB	A.	5748970	5/5/98	Miyaji et al.	395	733	4/30/96
	B.	5764555	6/9/98	McPherson et al.	364	748.03	3/13/96
	C.	5765216	6/9/98	Weng et al.	711	214	6/17/96
	D.	5765218	6/9/98	Ozawa et al.	711	219	3/10/95
	E.	5774711	6/30/98	Henry et al.	395	591	7/26/96
	F.	5778416	7/7/98	Harrison et al.	711	5	4/3/97
	G.	5790443	8/4/98	Shen et al.	364	746	3/19/96
	H.	5808926	9/15/98	Gorshtein et al.	364	748.11	9/24/96
	I.	5812439	9/22/98	Hansen	364	748.03	10/10/95
	J.	5812868	9/22/98	Moyer et al.	395	800.23	9/16/96
	K.	5825730	10/20/98	Nishida et al.	369	44.32	3/8/96
	L.	5826072	10/20/98	Knapp et al.	395	567	11/13/95
	M.	5826096	10/20/98	Baxter	395	800.24	5/19/95
	N.	5828875	10/27/98	Halvarsson et al.	395	588	5/29/97
	O.	5862065	1/19/99	Muthusamy	364	736.5	2/13/97
	P.	5867726	2/2/99	Ohsuga et al.	395	800.32	4/10/96
	Q.	5875342	2/23/99	Temple	395	733	6/3/97
	R.	5880984	3/9/99	Burchfiel et al.	364	748.07	1/13/97
	S.	5892697	4/6/99	Brakefield	364	748.02	12/19/95
	T.	5892699	4/6/99	Duncan et al.	364	760.4	9/16/97
	U.	5894428	4/13/99	Harada	364	724.03	7/28/97
	V.	5900683	5/4/99	Rinehart et al.	307	126	12/23/97
DmB	W.	5909385	6/1/99	Nishiyama et al.	364	760.03	4/1/97

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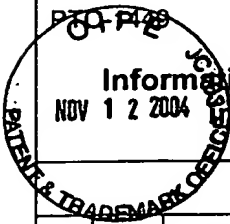
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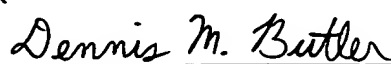
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OMB	A.	5917741	6/29/99	Ng	364	748.03	8/29/96
	B.	5918252	6/29/99	Chen et al.	711	217	11/25/96
	C.	5930159	7/27/99	Wong	364	745.01	10/17/96
	D.	5930503	7/27/99	Drees	395	651	12/29/95
	E.	5936870	8/10/99	Im, Jin Hyeock	364	745.03	8/15/97
	F.	5937199	8/10/99	Temple	395	335	6/3/97
	G.	5938759	8/17/99	Kamijo	712	209	12/19/97
	H.	5941940	8/24/99	Prasad et al.	708	523	6/30/97
	I.	5943249	8/24/99	Handlogten	364	748.02	4/25/97
	J.	5944816	8/31/99	Dutton et al.	712	215	5/17/96
	K.	5951627	9/14/99	Kiamilev et al.	708	404	11/14/96
	L.	5951679	9/14/99	Anderson, et al.	712	241	10/31/97
	M.	5978825	11/2/99	Divine et al.	708	525	11/14/97
	N.	5983333	11/9/99	Kolagotia et al.	711	219	8/27/97
	O.	5991787	11/23/99	Abel et al.	708	400	12/31/97
	P.	5991868	11/23/99	Kamiyama et al.	712	32	5/19/94
	Q.	5996067	11/30/99	White	712	224	10/28/97
	R.	6009454	12/28/99	Dummernuth	709	108	11/10/97
	S.	6014723	1/11/00	Tremblay et al.	711	1	1/23/97
	T.	6018757	1/25/00	Wong	708	525	8/8/96
	U.	6026489	2/15/00	Wachi et al.	712	241	4/26/95
	V.	6044392	3/28/00	Anderson et al.	708	551	8/4/97
OMB	W.	6044434	3/28/00	Oliver	711	110	9/24/97

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		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
DMB	A.	6049858	4/11/00	Kolagotia et al.	711	217	8/27/97
	B.	6058409	5/2/00	Kozaki et al.	708	409	8/5/97
	C.	6058410	5/2/00	Sharangpani	708	551	12/2/96
	D.	6058464	5/2/00	Taylor	711	217	7/9/96
	E.	6061711	5/9/00	Song et al.	709	108	8/19/96
	F.	6061780	5/9/00	Shippy et al.	712	204	1/23/98
	G.	6061783	5/9/00	Hariman	712	224	11/13/96
	H.	6076154	6/13/00	Van Eijndhoven et al	712	24	1/16/98
	I.	6084880	7/4/00	Bailey et al.	370	395	6/30/97
	J.	6101521	8/8/00	Kosiec	708	550	3/25/98
	K.	6101599	8/8/00	Wright et al.	712	228	6/29/98
	L.	6115732	9/5/00	Oberman et al.	708	625	5/8/98
	M.	6128728	10/3/00	Dowling	712	228	12/12/97
	N.	6134574	10/17/00	Oberman et al.	708	551	5/8/98
	O.	6144980	11/7/00	Oberman	708	627	1/28/98
	P.	6145049	11/7/00	Wong	710	267	12/29/97
	Q.	6181151	1/30/01	Wasson	324	765	10/28/98
	R.	6205467	3/20/01	Lambrech et al.	709	108	11/14/95
	S.	6209086	3/27/01	Chi et al.	712	244	11/10/98
	T.	6243786	6/5/01	Huang et al.	710	262	12/23/98
	U.	6243804	6/5/01	Cheng	712	228	7/22/98
	V.	6260162	7/10/01	Typaldos et al.	714	55	10/31/98
DMB	W.	6292866	9/18/01	Zalki et al.	710	264	3/30/99
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
	X.						
	Y.						
NON-PATENT DOCUMENTS - DOCUMENT (Including Author, Title, Source, and Pertinent Pages)							
	Z.						
EXAMINER <i>Dennis M. Butler</i>					DATE CONSIDERED <i>5-10-05</i>		
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PTO-1449

Application No.

Applicant(s)

09/870,772

Catherwood

Docket Number

Group Art Unit

Filing Date

068354.1482

2115

June 1, 2001

**Information Disclosure Citation
in an Application**

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		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
		6295574	9/25/01	MacDonald	710	261	1/20/00
	B.	6315200	11/13/01	Silverbrook et al.	235	454	7/10/98
	C.	6356970	3/12/02	Killian et al.	710	269	5/28/99
	D.	6377619	4/23/02	Denk et al.	375	232	9/26/97
	E.	6397318	5/28/02	Peh	711	220	4/2/98
	F.	6412081	6/25/02	Koscal et al.	714	34	1/15/99
	G.	6487654	11/26/02	Dowling	712	244	12/12/01
	H.	2002/0194466	12/19/02	Catherwood et al.	712	241	6/1/01
	I.	6523108	2/18/03	James et al.	712	224	11/23/99
	J.	6564238	5/13/03	Kim et al.	708	513	2/2/00
	K.	2003/0093656	5/15/03	Masse et al.	712	241	10/1/99
	L.	6633970	10/14/03	Clift et al.	712	217	12/28/99
	M.	6658578	12/2/03	Laurenti et al.	713	324	10/1/99
	N.	6681280	1/20/04	Miyake et al.	710	261	10/4/00
	O.	5701493	12/23/97	Jaggar	395	734	8/3/95
	P.	5386563	1/31/95	Thomas, deceased	395	650	10/13/92
	Q.	6694398	2/17/04	Zhao et al.	710	260	4/30/01
	R.	5623646	4/22/97	Clarke	395	560	9/12/95
	S.	4709324	11/24/87	Kloker	364	200	11/27/85
	T.	5561384	10/1/96	Reents et al.	327	108	11/8/95
✓	U.	5450027	9/12/95	Gabara	326	98	4/8/94
DMP	V.	4945507	7/31/90	Ishida et al.	708	530	6/12/89
	W.						

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Catherwood

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U.S. PATENT DOCUMENTS

	DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
DmB A.	3930253	12/30/75	Maida	340	347	1/24/74
B.						
C.						
D.						
E.						
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						YES	NO
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		Docket Number		Group Art Unit	Filing Date
		068354.1482		2115	June 1, 2001

U.S. PATENT DOCUMENTS							
		DOCUMENT NO.	DATE	NAME	CLASS	SUBCLASS	FILING DATE
OMB	A.	5974549	10/26/99	Golan	713	200	3/27/97
OMB	B.	6055619	4/25/00	North et al.	713	36	2/7/97
OMB	C.	6282637	8/28/01	Chan et al.	712	223	12/2/98
OMB	D.	6728856	4/27/04	Grosbach et al.	711	202	6/1/01
	E.						
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		DOCUMENT NO.	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
							YES NO
	P.						
	Q.						
	R.						

NON-PATENT DOCUMENTS		
	DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
OMB	S. SPARC, International, Inc., "The SPARC Architecture Manual", Version 8, pp 1-303	1992
	T.	
	U.	

EXAMINER <i>Dennis M. Butler</i>	DATE CONSIDERED <i>5-10-05</i>
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							YES	NO
	P.							
	Q.							
	R.							

NON-PATENT DOCUMENTS			
		DOCUMENT (Including Author, Title, Source, and Pertinent Pages)	DATE
DmB	S.	Weaver, et al., SPARC International, Inc. "The SPARC Architecture Manual", Version 9, pp. xiv, 137, 146-147, 200-204, 221-222, 234-236, 299	1994-2000
DmB	T.	Free On-Line Dictionary of Computing (FOLDOC). http://wombat.doc.ic.ac.uk/foldoc/ Search term: program counter	1995
	U.		

EXAMINER <div style="font-family: cursive; font-size: 1.2em;">Dennis M. Butler</div>	DATE CONSIDERED <div style="font-family: cursive; font-size: 1.2em;">5-10-05</div>
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